

Amendments to the Claims

Please amend Claims 32, 40, 44 and 48. The Claim listing below will replace all prior versions of the claims in the application.

Claim Listing

- 1-31. Canceled.
32. (Currently Amended) A method comprising:  
if an amount of data located in a first memory buffer does not exceed a maximum transfer capacity of a system in which the data is to be transferred in a single transfer operation to a remote memory buffer:  
associating the data with a first transfer operation; and  
if the amount of data associated with the first transfer operation has not reached the maximum transfer capacity, associating data located in one or more portions of one or more other memory buffers with the first transfer operation.
33. (Previously Presented) The method of claim 32, additionally comprising transferring the data associated with the first transfer operation.
34. (Previously Presented) The method of claim 33, additionally comprising associating a descriptor with the first transfer operation.
35. (Previously Presented) The method of claim 32, additionally comprising associating data with one or more subsequent transfer operations.
36. (Previously Presented) The method of claim 33, wherein the first and one or more subsequent transfer operations are performed in response to one or more RDMA (Remote Direct Memory Access) requests.

37. (Previously Presented) The method of claim 32, additionally comprising:  
if the amount of data located in the first memory buffer exceeds the maximum transfer capacity:  
associating a portion of the data with the first transfer operation;  
and  
associating one or more subsequent portions of the data with one or more subsequent transfer operations.
38. (Previously Presented) The method of claim 33, additionally comprising:  
associating a descriptor with the first transfer operation; and  
transferring the data associated with the first transfer operation.
39. (Previously Presented) The method of claim 38, additionally comprising:  
associating a descriptor with each of the one or more subsequent transfer operations; and  
transferring the data associated with the one or more subsequent transfer operations.
40. (Currently Amended) An apparatus comprising:  
an RDMA (remote direct memory access) manager operable to service one or more RDMA requests, and to:  
determine if an amount of data located in a first memory buffer exceeds a maximum transfer capacity of a system in which the data is to be transferred in a single transfer operation to a remote memory buffer, and:  
if it is determined that the amount of data located in a first memory buffer does not exceed the maximum transfer capacity, then associate the data with a first transfer operation; and  
if the amount of data associated with the first transfer operation has not reached the maximum transfer capacity, associate data located in one or more portions of one or more other memory buffers with the first transfer operation.

41. (Previously Presented) The apparatus of claim 40, the RDMA manager additionally operable to transfer the data associated with the first transfer operation.
42. (Previously Presented) The apparatus of claim 40, the RDMA manager additionally operable to associate data with one or more subsequent transfer operations.
43. (Previously Presented) The apparatus of claim 40, the RDMA manager additionally operable to:
- determine if the amount of data located in the first memory buffer exceeds the maximum transfer capacity, and:
  - if the amount of data located in the first memory buffer exceeds the maximum transfer capacity:
  - associate a portion of the data with the first transfer operation; and
  - associate one or more subsequent portions of the data with one or more subsequent transfer operations.
44. (Currently Amended) A system comprising:
- a host fabric adapter; and
  - an RDMA (remote direct memory access) manager included in a software stack of the host fabric adapter, the RDMA manager operable to service one or more RDMA requests, and to:
  - determine if an amount of data located in a first memory buffer exceeds a maximum transfer capacity of a system in which the data is to be transferred in a single transfer operation to a remote memory buffer, and:
  - if it is determined that the amount of data located in the first memory buffer does not exceed the maximum transfer capacity, then associate the data with a first transfer operation; and

if the amount of data associated with the first transfer operation has not reached the maximum transfer capacity, associate data located in one or more portions of one or more other memory buffers of the plurality of memory buffers with the first transfer operation.

45. (Previously Presented) The system of claim 44, the RDMA manager additionally operable to transfer the data associated with the first transfer operation.

46. (Previously Presented) The system of claim 44, the RDMA manager additionally operable to associate data with one or more subsequent transfer operations.

47. (Previously Presented) The system of claim 44, the RDMA manager additionally operable to:

determine if the amount of data located in the first memory buffer exceeds the maximum transfer capacity, and:

if the amount of data located in the first memory buffer exceeds the maximum transfer capacity:

associate a portion of the data with the first transfer operation; and

associate one or more subsequent portions of the data located with one or more subsequent transfer operations.

48. (Currently Amended) An article comprising a machine-readable medium having machine-accessible instructions, the instructions when executed by a machine result in the following:

if an amount of data located in a first memory buffer does not exceed a maximum transfer capacity of a system in which the data is to be transferred in a single transfer operation to a remote memory buffer:

associating the data with a first transfer operation; and

if the amount of data associated with the first transfer operation has not reached the maximum transfer capacity, associating data located in one or more portions of one or more other memory buffers with the first transfer operation.

49. (Previously Presented) The article of claim 48, additionally comprising instructions that result in a machine transferring the data associated with the first transfer operation.
50. (Previously Presented) The article of claim 49, additionally comprising instructions that result in a machine associating a descriptor with the first transfer operation.
51. (Previously Presented) The article of claim 48, additionally comprising instructions that result in a machine associating data with one or more subsequent transfer operations.
52. (Previously Presented) The article of claim 51, wherein the first and one or more subsequent transfer operations are performed in response to one or more RDMA (remote direct memory access) requests.
53. (Previously Presented) The article of claim 48, additionally comprising instructions that result in a machine:
- determining if the amount of data located in the first memory buffer exceeds the maximum transfer capacity, and:
  - if the amount of data located in the first memory buffer exceeds the maximum transfer capacity:
    - associating a portion of the data with the first transfer operation; and
    - associating one or more subsequent portions of data located in the first memory buffer with a corresponding number of one or more subsequent transfer operations.

54. (Previously Presented) The article of claim 53, additionally comprising instructions that result in a machine:
- associating a descriptor with the first transfer operation; and
  - transferring the data associated with the first transfer operation.
55. (Previously Presented) The article of claim 54, additionally comprising instructions that result in a machine:
- associating a descriptor with each of the one or more subsequent transfer operations; and
  - transferring the data associated with the one or more subsequent transfer operations.